



## HIGHER EDUCATION TECHNOLOGY SOLUTIONS

Ace Computers builds high-performance clusters and workstations that help educational institutions give students and researchers the power they need to stay ahead of new innovations and ideas while providing valuable cost savings.

COLLEGES, UNIVERSITIES AND RESEARCH LABS NEED TO DO EVERYTHING THEY CAN TO MAINTAIN COST WITHOUT SACRIFICING QUALITY.

Our solutions are used for numerous applications including simulation, design, engineering, physics, biology, nanotechnology and deep learning. With collegiate esports on the rise, Ace Computers can also provide computer solutions for college gamers that are equipped to handle multiple players at top-notch speed.



**ACE**COMPUTERS

[acecomputers.com](http://acecomputers.com)

## CASE STUDY

# Major U.S. Research Institution

## Challenge

A major U.S. research institution was seeking a partner to provide an array of technology solutions to help fuel numerous projects including the institution's deep learning initiatives. The client needed solutions that could support a range of applications in the areas of engineering, physics, biology, nanotechnology and deep learning.

## Solution

The institution worked with Ace Computers to custom-build a significant amount of equipment including workstations, servers and storage to support their high-performance computing needs. The workstations were able to develop algorithms that give computers the ability to understand images and videos, utilizing a great amount of processing power and speed.

Ace Computers was able to integrate the institution's existing workstations with NVIDIA® GPUs to increase the performance of previous-generation graphics cards. The machines also helped support robotics and computational perception research at the institution by fueling two research centers and labs—the Robotics and Intelligent Machines Center (RIM) and the Computational Perception Lab (CPL).

## Results

Because the institution constantly runs computationally heavy tasks for long periods of time, the stability of its machines was critical to its work. The workstations built by Ace Computers provided the reliability and stability needed with nearly zero issues or downtime. Because Ace Computers uses high-quality yet cost-effective components and provides the client with the dependability it needs to perform research quickly and accurately, they have been a long-time partner for nearly 10 years.

"We constantly run computationally heavy tasks for long periods of time on the machines. Thus, the stability of the machines is very important. I have been using Ace Computers workstations for many years and they have been very reliable."

Graduate Research Assistant, School of Interactive Computing  
Major U.S. Research Institution

## FEATURES

- Supercomputer capabilities with compact workstations that fuel intensive research activities at a fraction of the price
- Faster problem-solving and decision-making abilities with increased memory and larger storage capabilities
- Scalable server solutions and the ability to expand existing clusters and workstations in the future
- High-performance clusters allow users to more quickly develop detailed models and simulations involving large quantities of data
- Lower total cost of ownership (TCO) with reduced downtime, increased efficiency and expanded productivity



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